

Established 1868

ICE TOOLS

STAATSBURG ICE TOOL WORKS

J. G. BODENSTEIN & CO.

STAATSBURG-ON-HUDSON, NEW YORK

Catalog No. 102

ICE TOOLS were but little known and used in 1868, yet we have been actively engaged in their manufacture since that time.

Our extended experience and endeavor to work for the best possible results have placed us as manufacturers of High Grade Tools and this we are determined to maintain.

Our Ice Tools are guaranteed to give perfect satisfaction and we will replace or repair free of charge any tool that is found unsatisfactory providing it is returned to us.

Established 1868

ICE TOOLS

Staatsburg Ice Tool Works

J. G. Bodenstein & Co.

Staatsburg-on-Hudson, New York



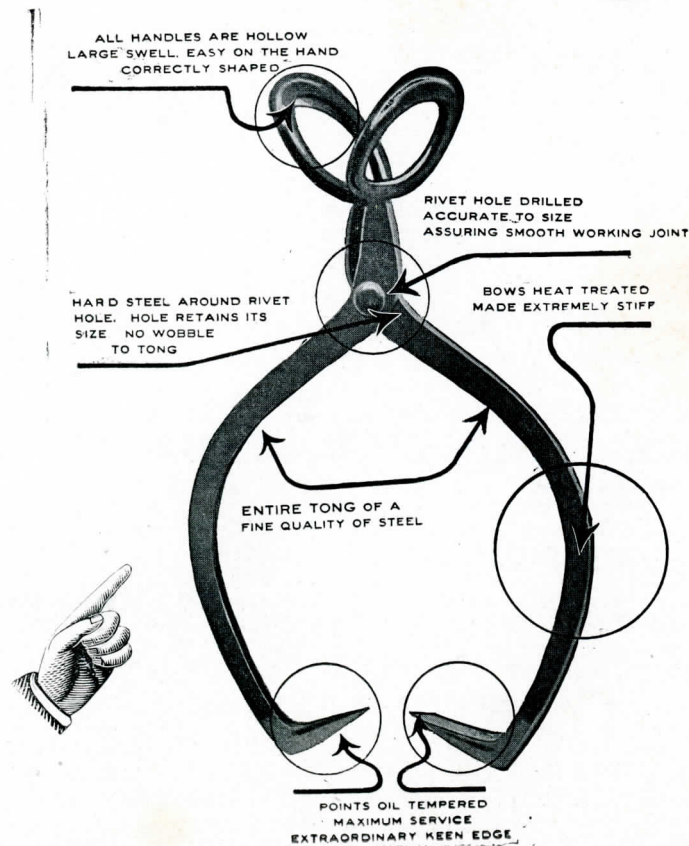
The entire tong, except handles, is made of High Carbon steel, which we have found to be best suited for this particular purpose.

The handles are made of steel pipe, large and very easy on the hands.

The points are carefully tempered by the most up-to-date methods known. Every point tempered exactly alike.

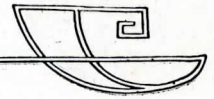
No solid handle tong can compare with our large hollow handle tongs.

The practice we have followed for many years manufacturing ice tongs.





Staatsburg Ice Tool Works, Staatsburg, N.Y.



NEW YORK TONGS WITH HOLLOW HANDLES

No. 101—14½ in., hollow handle, standard grade, wt.	36 lb.	\$24.00 doz.
102—16½ in.	39 lb.	25.00
103—16½ in.	43 lb.	27.00
104—20 in.	45 lb.	28.50
105—24 in.	57 lb.	30.50

extra grade

BOSTON TONGS WITH HOLLOW HANDLES

No. 110—13 in., hollow handle, weight	36 lb.	. . \$24.00 doz.
111—14½ in.	42 lb.	. . 24.50
112—16½ in.	46 lb.	. . 25.00
112a—20 in.	54 lb.	. . 28.50
113—24 in.	60 lb.	. . 30.50
114—26 in.	66 lb.	. . 31.50

BOSTON TONGS (Extra Grade) WITH HOLLOW HANDLES

No. 116—13 in., hollow handle, extra grade, wt.	36 lb.	\$27.00 doz.
117—14½ in.	42 lb.	27.50
117a—15 in.	Special	29.00
118—16½ in.	46 lb.	28.00

PHILADELPHIA TONGS WITH HOLLOW HANDLES

No. 120—14 in., hollow handle, weight	32 lb.	. . \$37.00 doz.
121—17 in.	36 lb.	. . 37.50

All our tongs are made of a special high carbon steel, the bows are heat treated and the points are carefully tempered for long service.

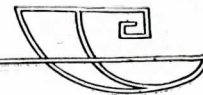
The Hand Ice Tong is one of the most important tools used by the ice man, and it is very necessary that it should be the very best. We manufacture the very best tong to be made. We use only the best materials and with an up-to-date method of manufacturing, we are enabled to produce the highest quality obtainable.

The steel used in our regular grade ice tongs is made specially for us, and not only do we temper each point for long service but treat the entire tong to the joint and by doing this, we get an extra stiff tong, not obtainable in any other way. There are no better tongs than ours at any price.

All our large swelled hollow handles are made of a fine quality of steel pipe, ¾ inch in diameter. We recommend the hollow handle tong as no other style handle equals it for comfort.



Staatsburg Ice Tool Works, Staatsburg, N.Y.



CINCINNATI TONGS WITH HOLLOW HANDLES

No. 131—12 in., weight 21 lb.	.	\$17.75 doz.
132—15 in.	24 lb.	18.50

All points are carefully tempered assuring a keen point and keeping sharp with long service.



KANSAS CITY TONGS WITH HOLLOW HANDLES

No. 136—12 in., weight 28 lb.	.	\$17.75 doz.
137—15 in.	30 lb.	18.50

If desired, we can furnish the Kansas City and Cincinnati Tongs with pipe handle in place of the open top style.



PATENT LINK TONGS WITH HOLLOW HANDLES

No. 141—12 in., weight 28 lb.	.	\$17.75 doz.
142—15 in.	30 lb.	18.50

INDIANA-OHIO CHAIN TONGS WITH HOLLOW HANDLES

No. 144—12 in., weight 25 lb.	.	\$17.75 doz.
145—15 in.	28 lb.	18.50

Indiana-Ohio Tongs are assembled with a single link.



STRAP TONGS

No. 146—15 ½ in., weight 17 lbs. dozen.

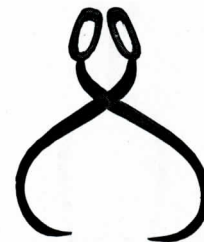
Price on application.

The bows are similar to the New London type only the handle is made of a leather strap 1 inch wide.



BUFFALO TONGS WITH SOLID HANDLES

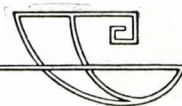
No. 151—12 in., painted, weight 28 lb.	\$24.00 doz.
153—14 in.,	32 lb. 25.00



Measurements given are those of space between points when tongs are wide open.

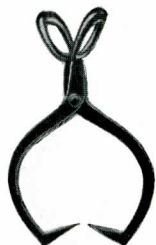


Staatsburg Ice Tool Works, Staatsburg, N.Y.



NEW LONDON TONGS WITH HOLLOW HANDLES

No. 160—13	in., weight	32 lbs.	. \$28.00 doz.
161—14 ½	in.	36 lbs.	. 28.50
162—16	in.	40 lbs.	. 29.00



CAR TONGS WITH HOLLOW HANDLES

No. 166—12 in.	\$29.50 doz.
----------------	-----------	--------------



PROVIDENCE TONGS T HANDLE

No. 167—13 ½ in., weight	21 lbs. dozen.
Price on application.	

THE "HANDY" TONG WITH HOLLOW HANDLES

No. 168—14 in., hollow handle, weight	28 lb.
	\$22.00 doz.

A sample order will prove that it is the best balanced tong made. Very handy for lowering the cakes of ice in the house refrigerators. Opens 14 ½ in. Points tempered, bows stiffened. Built for handling large pieces.



EDGING UP TONGS WITH HOLLOW HANDLES EASTERN TYPE

No. 170—26 in., hollow handle, weight	48 lbs.
	\$32.00 doz.



UTAH TYPE WITH HOLLOW HANDLES

No. 175—19 in., hollow handle, weight	48 lbs.
	\$33.00 doz.

Are used for storing ice on edge. Edging Up Tongs are made entirely of high carbon steel, points carefully tempered and bows made extremely stiff by heat treating.





Staatsburg Ice Tool Works, Staatsburg, N.Y.



SPRINGFIELD TONGS WITH HOLLOW HANDLES Narrow Points

No. 175a—15 ½ in., weight 25 lbs. . \$28.50 doz.

Springfield Tongs are made with hollow handles and narrow points. Made light, bows heat treated. Especially made for delivery purpose.



ICE CREAM CAN TONGS WITH HOLLOW HANDLES Weight 37 lbs. per doz.

No. 176—Ice Cream Can Tongs . \$24.00 doz.

Ice Cream Can Tongs are made so they grip the can securely. They protect the cans from getting punctured or dented. Ice Cream Cans will give much longer service handled with these Tongs.



LOWERING TONGS

Single Point
Weight 5 ½ lbs.

Double Point
Weight 7 lbs.

No. 181—17 in., \$8.00 ea. No. 186—17 in. \$10.00 ea.
182—24 in. 9.00 187—24 in. 12.00

Lowering Tongs are made for hoisting or lowering ice where there is only a small space over head.

MARKET TONGS

No. 190—24 in., single points, wt. 8 lbs. \$13.00 each
191—24 in., double points, 10 lbs. 14.00

Market Tongs are used similar to the Lowering Tongs, for hoisting where the overhead space is limited.



HOISTING TONGS

No. 192—Medium, weight 18 lbs.
\$21.00 each

Our Hoisting Tongs are made of a special steel which we have made for this particular purpose so as to stand the hard work to which they are subject. Our hoisting tongs are superior to any made for strength and durability.

They are chiefly used for hoisting into houses and from boats and cars.





Staatsburg Ice Tool Works, Staatsburg, N.Y.



DRAG TONGS



PLATFORM DELIVERY TONGS



DRAG TONGS

No. 195—Hollow handle, weight 8 lbs. . . . \$40.00 doz.

PLATFORM DELIVERY TONGS

No. 196—Hollow handle, weight 6 lbs. . . . \$38.00 doz.



Weight, 6 lbs.

No. 320—Scoop Shovels, perforated, galvanized . . . \$3.25 each

ICE TOOL FILE



No. 455—Tool Files, 12 in. blade \$7.50 doz.

Our Ice Tool Files are of the finest grade and are especially adapted for filing plows, markers and sharpening ice tools. Experience has taught us that no file is too good for this purpose. These files are very much better than ordinarily sold.

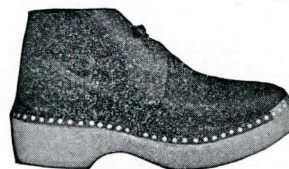
WHISK BROOM



No. 245—Whisk Brooms \$4.00 doz.

Our Whisk Brooms are made of bassine fiber which has considerably more wearing quality than corn, such as used in the ordinary whisk broom. An excellent whisk for cleaning ice.

SHOES



No. 480—Wooden Sole Shoes, plain, sizes 7 to 12, \$4.50 per pair
481—shod 5.50

Used in ice plants, storage houses and creameries.



Tarpaulins or Wagon Covers

Furnished in the following sizes

5 x 10 feet	.	.	\$6.00 each
6 x 11 feet	.	.	7.50
7 x 12 feet	.	.	9.50
8 x 14 feet	.	.	12.50
10 x 15 feet	.	.	16.50
12 x 14 feet	.	.	18.00*

Other sizes made to order.

Are used on ice wagons and trucks to keep the sun off.

Reduces your shrinkage.

Made of heavy brown waterproof duck, a tarpaulin that never soaks up water, the canvas being doubly waterproofed to give long service.

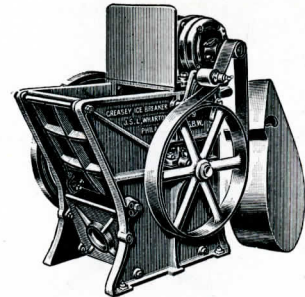
All Tarpaulins are equipped with brass eyelets and with ropes spliced in. Sample furnished upon request.

The Creasey Ice Breaker is a permanent investment; many are still in service after 20 or 30 years use. This should be considered when buying, as a better and stronger machine will pay big dividends in the way of longer life and freedom from annoying breakdowns and repairs.

Creasey Ice Breakers are continually being improved to make them more rapid and better able to do their work. Note the strongly ribbed frame, the split babbed bearing, the heavy fly wheel, the stiff shaft and the heavy semi-steel drum in which the picks are held in reamed conical sockets.

The latest Creasey improvement is to make the comb plate, upon which the interchangeable combs regulating the size of the broken ice are mounted, of semi-steel instead of cast iron. Semi-steel has about 50% greater strength than cast iron and as the comb plate must sustain the force of the blow when the picks strike the ice, the additional security afforded by tough, strong semi-steel is good insurance of continuous service.

Creasey Ice Breakers are made in over 16 different sizes and types, of capacities up to 50 tons of broken ice per hour and for hand, belt or motor-drive. Directly-connected motor-driven Creaseys and the hopper bottom Creaseys lend themselves to improved labor eliminating icing layouts. Our engineers offer their services in reducing your ice-breaking costs. Ask for the Creasey Engineering Bulletin. Prices on application.

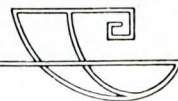


Creasey Crusher

Send for Complete Catalog of Crushers



Staatsburg Ice Tool Works, Staatsburg, N.Y.



Weight, 4 lbs.

PIPE HANDLE SHAVERS

No. 200—4-Point Shavers, 24 in., ring grip,	
beveled one side	\$3.25 each
201—4-Point Shavers, 24 in., ring grip,	
beveled both sides	3.25
202—4-Point Shavers, 40 in., ring grip,	
beveled one side	3.25
203—4-Point Shavers, 40 in., ring grip,	
beveled both sides	3.25



Weight, 5 lbs.

No. 207—5-Point Shavers, 42 in., beveled one side	\$3.75 each
208— 42 in., both sides	3.75



Weight, 5 ½ lbs.

No. 209—5-Point Shavers, 48 in., beveled one side	\$3.75 each
---	-------------

Our improved steel pipe handle ice shavers are the most practical ice shavers made. They are forged in one piece, having no joints to dry out and get loose or no slivers to injure the hands and they are not as easily broken as the wood handle shavers.

The handle of the 4-tooth shaver is made of steel pipe, ¾ in. dia. with a hollow handle as used on hand ice tongs, the blade is of tool steel and carefully tempered for long service. The teeth are extremely long and are highly polished and handle nicely enameled.

The handles on the 5-tooth shavers are made of steel pipe, 1 ¼ in. dia. with a hollow handle, same as those on the 4-tooth shavers.



Weight, 3 ½ lbs.

WOOD HANDLE SHAVERS

No. 204—4-Point Shavers, 24 in., wood handle,	
beveled one side, D handle	\$3.50 each
205—4-Point Shavers, 42 in., wood handle,	
beveled one side, D handle	3.50



Weight, 3 lbs.

No. 206—4-Point Shavers, 48 in., knob handle,	
beveled one side	\$3.50 each



Weight, 4 ½ lbs.

No. 206a—5-Point Shavers, 42 in., beveled one side,	
D handle	\$4.00 each
206b— 48 in., knob	4.00



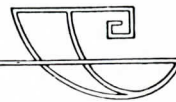
Weight, 5 lbs.

No. 206c—7-Point Shavers, 42 in., beveled one side	
D handle	\$4.50 each
206d— 48 in., knob	4.50

The blades of the wood handle shavers are made of the same material as the blades of the regular pipe handle shavers.



Staatsburg Ice Tool Works, Staatsburg, N.Y.



Weight, 5 1/4 lbs.

No. 211—7-Point Shaver, 42 in., ring grip,
beveled one side \$4.00 each



Weight, 6 1/4 lbs.

No. 212—7-Point Shaver, 48 in., knob
beveled one side \$4.00 each



REFRIGERATOR BLOCKS

Our Refrigerator Blocks are made of the best material. They are light, strong and have roller bearings. These blocks are very compact and will hoist as close to a ceiling as possible. Use 9-16 or 5-8 inch rope.

Weight per pair, 4 1/2 lbs.

No. 306—Refrigerator Blocks, one single,
one double \$6.00 per pair
No. 307—Refrigerator Blocks,
two double 7.25



Weight, 5 3/4 lbs.

No. 214—Breaker, 43 in., tines 8 in., D handle . \$9.00 each



Weight, 6 1/2 lbs.

No. 215 —Breaker, 48 in., tines 8 in., knob handle \$8.75 each
215a— 7 ft., wood handle, tines 8 in.,
extra heavy . . . 9.50



Weight, 7 3/4 lbs.

No. 216—Breaker, pipe D handle, 43 in., tines 8 in. \$9.00 each

Our breakers are made of the best materials, the tines are laid with the finest tool steel and carefully tempered. They are so made that they can be used for breaking coarse lumps or scaling off fine pieces and are very rapid cutters. These breakers are very popular in fish markets and are used by ice dealers in place of shavers.

The handles of our pipe handle breakers are made of steel pipe 1 3/8 inches outside diameter. The D grip is formed out of the pipe, making a breaker of one piece, having no joints. This makes a very strong and neat tool.



- | | | | | |
|----------|-----------------------------|--------|---|-------------|
| No. 220— | Hand Saw, oval iron handle, | 26 in. | . | \$2.25 each |
| 221— | | 30 in. | . | 2.50 |
| 222— | | 36 in. | . | 2.75 |

A large, single-edged hand saw with a wooden handle and a metal blade. The blade is long and slightly curved, with a series of sharp teeth along the bottom edge. The handle is made of wood and has a metal ferrule at the base of the blade.

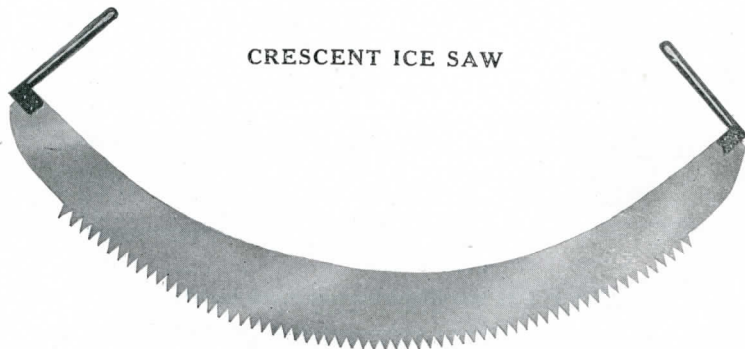
- No. 229—House Saw, weight 6 lbs., blade 42 in. . \$4.00 each

ICE CLEAVER



- No. 234—Cleavers, 13 teeth, weight 3½ lbs. . . \$7.50 each

CRESCENT ICE SAW



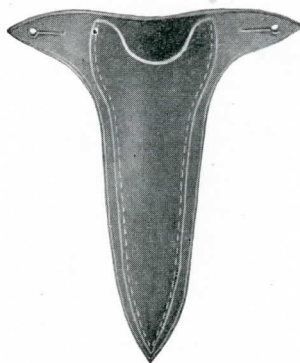
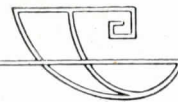
Weight boxed for shipment, 50 lbs.

- No. 235—Crescent Saw, length, 78 in.; depth 24 in.;
blade 8 in. \$35.00 each

11



Staatsburg Ice Tool Works, Staatsburg, N.Y.



Ice Awl Sheath

No. 240—Splitting Awl Sheaths \$5.50 doz.
Made of a good grade leather.



Pear Round Chisel

SPLITTING AWLS

No. 241—Splitting Awl, pear handle	.	.	.	\$1.75 doz.
242— round handle	.	.	.	2.00
243— chisel handle	.	.	.	1.75
244— points	.	.	.	.75

All awl bits are 5½ in. long, 3-16 in. dia.

Our expert Ice Splitting Awls are made of the best tool steel and are carefully tempered their entire length.

Blades are ground with an extra long taper.

We furnish extra awl points, as awls with worn out or broken points can be taken out of handles and new points driven in, making the awl equal to new. It pays to buy extra points with the Awls.

POCKET ICE APRONS



Straight Top



Cut-out Top

- No.248—Pocket Ice Apron, straight top with harness complete \$5.00 each
No. 249—Pocket Ice Apron, cut-out top, with harness complete \$5.50 each

Pocket Ice Aprons have been very popular for many years. The Straight Top Style has the same harness as the Cut-out Style. The top of the Apron is cut straight across.

The Cut-out Top Style is made so it extends over the shoulders which gives better protection. Furnished with complete harness. They also have a flap that covers the shoulder that the illustration does not show.



Plain Rubber Aprons

No. 249a—Plain Rubber Aprons, 46 in. . . . \$2.50 each

These Aprons are made of good material and are worn in front in the regular manner of ordinary aprons.

Canvas Aprons

No. 249b—Canvas Ice Apron, cut-out top, with harness complete
\$5.00 each

Canvas Ice Aprons are popular among the Ice trade.

Has the cut-out top like the Rubber Pocket Aprons on opposite page.

Made of heavy canvas and with the leather back pad attached.

Shoulder Pads

No. 249c—Shoulder Pads, right or left . . . \$7.00 each

Shoulder Pads are made of the strongest waterproof canvas and most durable leather. They keep the wearer absolutely dry and save clothes from wearing out through constant swinging of ice on shoulders and back.

CAR ICING HOOKS



Weight of 5 ft. Car Icing Hooks, 60 lbs. per doz.

No. 334—Icing Hooks, 5	ft., wood handle	\$55.00 doz.
5 ½	ft., “ “	56.00
5	ft. pipe handle, wt. 125 lbs.	60.00
5 ½	ft. “ “	61.00

Our Car Icing Hooks are made with a tapered square steel breaker, 6 ½ inches long. This breaker is made of the best tool steel and tempered for severe service. We forge these hooks in one piece and they are made with a socket to take the full size wood handle.

DETACHABLE ICING HOOKS



Weight 55 lbs. doz. 4 ½ ft. length handle, over all, 5 ft.

No. 334 ½—Icing Hooks with 4 ft. wood handle	\$30.00 doz.
4 ½ ft.	31.00

Made with detachable puller and breaker.

Used at car icing stations and for breaking up cakes.



Staatsburg Ice Tool Works, Staatsburg, N.Y.

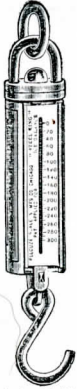
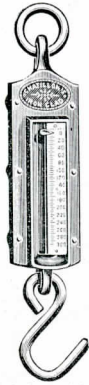


The Iron Clad Scale is made with a malleable iron jacket. It has been on the market for a long time and has proven a very satisfactory scale. It is extensively used in some localities.

The Steel King Ice Scale is made entirely of steel, and has no castings or screws. It is a well known scale.

The Straight Scale is largely used where ice is weighed by 1 and 2 lb. marks. It is substantially made.

The Mogul is a very popular scale having springs wound in opposite directions. These scales can be repaired any number of times.



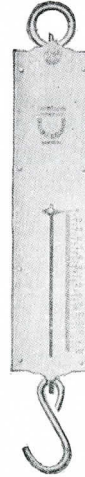
Weight $5\frac{1}{4}$ lb. Weight $4\frac{3}{4}$ lbs.
"Iron Clad" "Steel King"

"IRON CLAD" SCALES

No. 250—200 lbs., by 2 lbs.	\$5.25 each
251—200 lbs., by 5 lbs.	4.75
252—300 lbs., by 5 lbs.	6.00
253—400 lbs., by 5 lbs.	5.00

"STEEL KING" SCALES

No. 254—150 lbs., by 1 lb.	\$5.75 each
255—200 lbs., by 2 lbs.	6.25
256—300 lbs., by 5 lbs.	6.75
257—400 lbs., by 5 lbs.	7.00



Weight $4\frac{3}{4}$ lbs. Weight $6\frac{1}{4}$ lbs.
"Straight" "Mogul"

"STRAIGHT" SCALES

No. 262—80 lbs., by 1 lb.	\$3.00 each
263—100 lbs., by 1 lb.	5.00
266—200 lbs., by 2 lbs.	8.00
268—300 lbs., by 2 lbs.	9.25

"MOGUL" SCALES

No. 269a—200 lbs., by 5 lbs.	\$7.25 each
269b—300 lbs., by 5 lbs.	7.25
270—350 lbs., by 5 lbs.	7.25



CANVAS ICE BAG

No. 273 Canvas Bag Reenforced with rope	\$2.50 Ea.
No. 274 Canvas Bag without rope	\$1.50 Ea.

Canvas Bags are becoming very popular among the Ice Dealers for the delivery of Ice in the homes.

Our Bags are water proof and made with a double bottom.

The No. 273 Bag is reenforced with rope and will last much longer.

Carrying capacity 100 lbs.



Staatsburg Ice Tool Works, Staatsburg, N.Y.



HOUSE AXES

No. 276—6½ lb.; blade 6 in. wide, handle 36 in. \$94.00 doz.

Weights of axes do not include handle.
Any length handle furnished without extra cost.

NEW YORK AXES

No. 278—4 lb., blade 7½x3 in., handle 28 in. \$48.00 doz.
279—5 lb., 8x3¼ in. 30 in. 48.00

PROVIDENCE HATCHETS

No. 280—3 lb., blade 7x2½ in., handle 15 in. \$38.00 doz.

SPECIAL PHILADELPHIA HOOK AXES

No. 281—blade 7½x2¾ in., handle 28 in. \$40.00 doz.
Made of fine material, carefully tempered. The same pattern as the No. 282.

PHILADELPHIA HOOK AXES

No. 282 —blade 7½x2¾ in., handle 28 in. \$48.00 doz.
282a— 7½x2¾ in., 22 in. 48.00

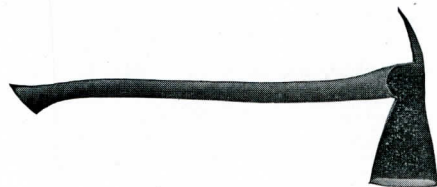
PHILADELPHIA SQUARE HEAD AXE

No. 285—blade, 7½x2¾ in., handle 28 in. \$48.00 doz.

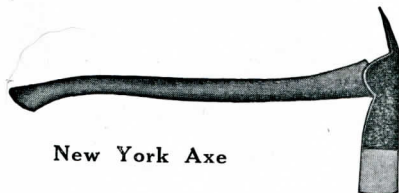
CHICAGO AXES

No. 287—blade, 8x2½ in., handle 28 in. . \$48.00 doz.
288— 8x2¾ in., handle 28 in. . 48.00

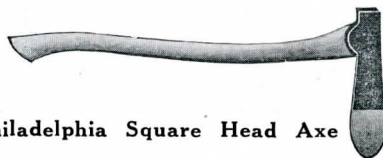
All our axes are carefully tempered for a keen cutting edge. Our axes will stand severe use.



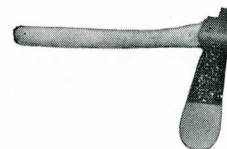
House Axe



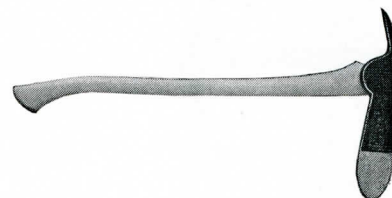
New York Axe



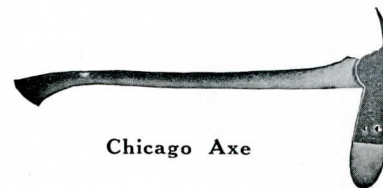
Philadelphia Square Head Axe



Providence Hatchet



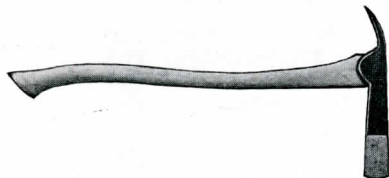
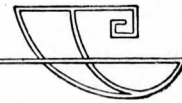
Philadelphia Hook Axe



Chicago Axe



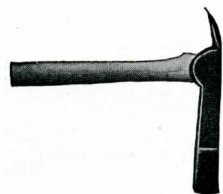
Staatsburg Ice Tool Works, Staatsburg, N.Y.



Boston Axe

BOSTON AXES

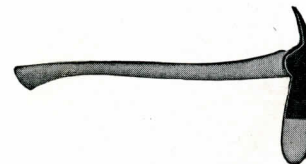
No. 289—4 lb.; blade, $8\frac{1}{2} \times 1\frac{5}{8}$ in., handle, 28 in. . \$48.00 doz.



Southern Hatchet
Square Edge

SOUTHERN AXES

No. 290—2½ lb., blade 2¼ in. wide, hdl. 18 in.	.	\$38.00 doz.
291—3½ lb., 2½ in. 22 in.	.	48.00



Southern Axe

SOUTHERN HATCHETS

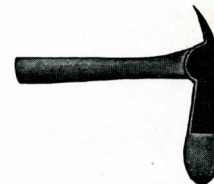
No. 292—2 lb.; square edge, 2 in. wide; handle 16 in.	\$38.00 doz.
293—2½ lb.; round edge, 2¼ in. wide; 16 in.	38.00
294—2½ lb.; square edge, 2¼ in. wide; 16 in.	38.00



Washington Hatchet

WASHINGTON HATCHETS

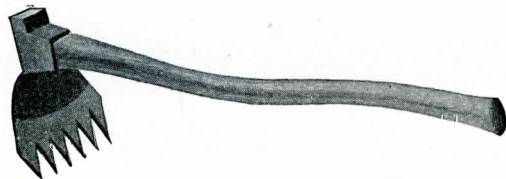
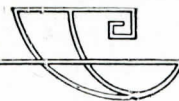
No. 295—2¼ lb.; 6 x 2½ in.; handle 14 in., or 15 in.	\$46.00 doz.
296—2½ lb.; 6½ x 2¾ in.; 14 in., or 15 in.	46.00



Southern Hatchet
Round Edge

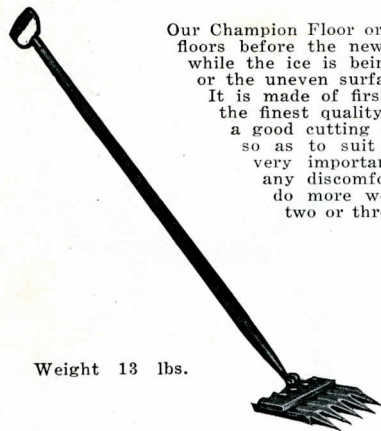


Staatsburg Ice Tool Works, Staatsburg, N.Y.



Weight, 5 lbs.

No. 300—Adze \$7.50 each
Used for leveling floors.



Weight 13 lbs.

No. 301—Patent Floor Levelers \$10.00 each
302—Extra Knives 1.25
303—Extra Bolts20

Our Champion Floor or Field Leveler is used for leveling old floors before the new ice is harvested, for leveling floors while the ice is being harvested and for removing lumps or the uneven surface from the field. It is made of first class material and the teeth are of the finest quality of tool steel, carefully tempered for a good cutting edge. The handle is made adjustable so as to suit the height of the user. This is a very important feature of this tool as it avoids any discomforts in using it. One man is able to do more work with the Champion Leveler than two or three can do with the shaver-style leveler.



Weight, 6 lbs.

No. 304—Floor Shaver; length 58 in.; blade 6 in. wide, \$4.75 each
Also used for cleaning sidewalks.



Weight, 3 lbs.

No. 310—Line Marker \$2.25 each

Used for making a line, by means of a straight edge, in which to run the first groove in laying out the ice field.



Weight, 4½ lbs.

No. 311—Elevator Fork, 72 in. \$3.50 each

Used to feed ice cakes to elevator.

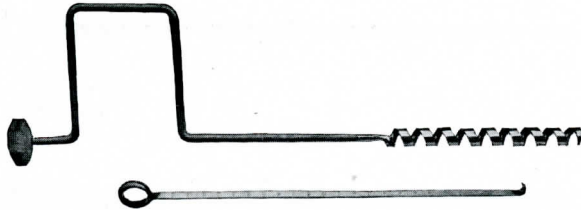


Weight, 7 lbs.

No. 312—Sieve Shovel, 48 in. \$3.00 each



Staatsburg Ice Tool Works, Staatsburg, N.Y.



Weight 6 lbs.

- No. 313—Augur, 24 in. long, 1 1/4 in. diameter . \$8.00 each
 314—Measuring Rod, 24 in. long . 1.50



Weight, 7 lbs.

- No. 316—Scoop net, 60 inch . \$7.00 each
 Sieve Shovels and Scoop Nets are used for removing slush from the canal.



Towing Hook

Weight, 15 lbs.

- No. 324—Towing Hook . \$9.00 each
 Towing Hooks are made entirely of steel and very stiff. They are used in towing large floats of ice with a horse. They are the best implement made for this purpose.

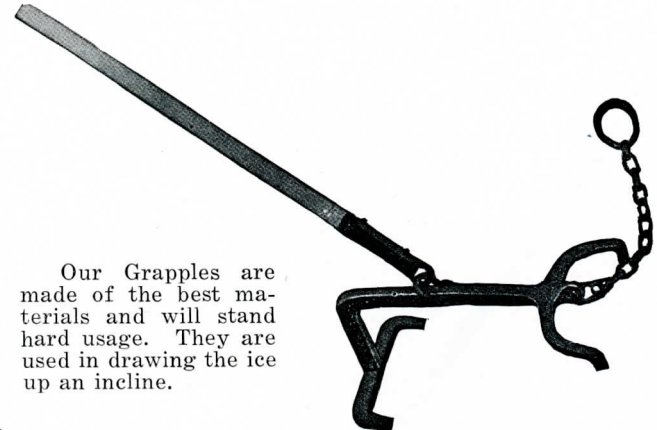


FIELD SAW

Weight, 15 lbs., blade 4 1/2 ft.

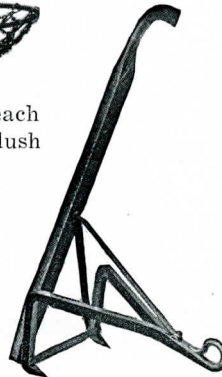
- | | | |
|--------------------------|-----------|-------------|
| No. 230—Field Saw, 4 ft. | | \$7.00 each |
| 231—4 1/2 ft. | | 7.50 |
| 232—5 ft. | | 8.00 |
| 233—5 1/2 ft. | | 8.50 |

If case is desired, add \$2.50 to list price.



Weight 16 lbs.

- No. 321—Pole Grapple, with handle, \$13.50 each
 322—without handle 12.00
 323—Handle and Clevis 1.50



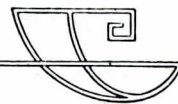
Jack Grapple

- No. 325—Jack Grapple
 weight 19 lbs. \$13.00 each

Our Grapples are made of the best materials and will stand hard usage. They are used in drawing the ice up an incline.



Staatsburg Ice Tool Works, Staatsburg, N.Y.



New York Pattern—Narrow Points

Weight 5 ft. 40 lbs. doz.

No. 330—Hooks, 3 ft.	\$19.00 doz.
3½ ft.	20.25
4 ft.	21.25
4½ ft.	21.75
5 ft.	22.25
6 ft.	24.00
8 ft.	30.00
12 ft.	42.00
16 ft.	60.00

Boston Pattern—Wide Points

No. 331—Hooks, 3 ft.	\$19.00 doz.
3½ ft.	20.25
4 ft.	21.25
4½ ft.	21.75
5 ft.	22.25
6 ft.	24.00
8 ft.	30.00
12 ft.	42.00
16 ft.	60.00

Our Ice Hooks are made of a special steel and laid heavily with fine quality of tool steel especially adapted for this particular purpose. We pay strict attention to have our handles of the best quality, second growth ash, correct in size and shape. Our ice hooks are unexcelled in finish and durability and are made to give long service. We make our Canal Ice Hooks with the best quality turned ash handles only. The ice hook is one of the most important implements in the harvesting and handling of ice, and it is very important to the ice harvester to have the best made.

Our Ice Hooks will meet the exact requirements of the experienced ice handler who wants a hook with proper temper and shape for his work.

We have in stock two styles of Hooks: the New York pattern with a narrow point, and the Boston pattern with its wide point.

The New York pattern is very rapidly becoming the most popular hook.



CAR HOOKS

Weight, 4 ft., 45 lbs. doz.

No. 332—Car Hooks, 3½ ft.	. . . . .	\$26.00 doz.
4 ft.	. . . . .	27.00
4½ ft.	. . . . .	27.50

Car Hooks are made the same as the regular ice hooks with the exception of a band iron which extends 18 inches down the handle from the pusher. This strengthens and protects the handle for car use.



Weight, 4 ft., 45 lbs. doz.

No. 333—Cant Hooks, 4 ft.	\$31.00 doz.
---------------------------	-----------	--------------

without handles 10.50

Used to edge up ice in houses and barges.



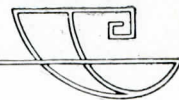
Weight, 36 lbs. doz.

No. 333a—Switching Hooks, 3 ft. 8 in., D handle	\$24.00 doz.
---	--------------

A very popular hook used for switching ice on the run. The pusher is set at a right angle so that it requires only a quarter turn to change from using the puller or pusher.



Staatsburg Ice Tool Works, Staatsburg, N.Y.



Weight, 16½ lbs.; length, 4 ft. 10½ in.

No. 357—Needle Bar Ring Handle, 3-tined . \$10.00 each

This Bar is very popular for field use especially for breaking strips from the floats.



Weight 18 lbs.; length 4 ft. 8 in.; tines 18 x 3 in.

No. 358—Splitting Bar, Lynn type . \$8.25 each

For breaking floats from ice fields.



Length, 4 ft. 9 in.

No. 359 —Needle Bar, weight 12 lbs., handle 1 in. steel \$4.75 each

359a— 15 lbs., “ 1½ in. steel 5.25

For dividing the strips into single cakes in the canal.



Length, 4 ft. 6 in.; blade, 11 x 3 in.

No. 360a—Splitting Chisel, ring handle, 14 lbs., standard \$5.00 each

361— 14 lbs., extra 5.50

362a— knob handle, 14 lbs., standard 4.50

For dividing the strips into single cakes and for general use.



Weight 14 lbs.; length 4 ft. 6 in.; blade 11 x 3 in.

No. 365—Splitting Chisel, ring handle, saw teeth . \$6.25 each

For dividing strips into single cakes.



Weight, 9 lbs., 12 in. inserted needle tines.

No. 370—Splitting Fork, 2-tined, wood handle . \$9.00 each



Weight 11 lbs.; 12 in. inserted needle tines

No. 371—Splitting Fork, 3-tined, wood handle . \$9.50 each



Weight 13½ lbs.; 12 in. inserted needle tines

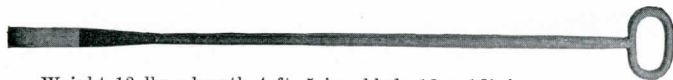
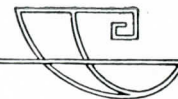
No. 372—Splitting Fork, 4-tined, wood handle . \$10.00 each

372a—Extra Tines, needle . 1.50

This style Fork Bar is the most up-to-date bar made, having several distinct advantages over other bars. All the tines are made interchangeable so that they can be inserted in case of a break. The entire tine is made of the best quality of tool steel.



Staatsburg Ice Tool Works, Staatsburg, N.Y.



Weight 12 lbs.; length 4 ft. 5 in.; blade 12 x 1 1/4 in.

No. 373—Tapping Bar \$5.00 each

Our Tapping Bars have a 1-inch round handle. This bar is made especially for wetting down a field of ice after it has had a fall of snow, and is also used by many ice men on the small canal for separating the cakes.



Weight 14 lbs.; length 4 ft. 6 in.; blade 16 x 3 1/4 in.

No. 374—Separating Chisel, ring handle . . . \$6.00 each
375—Separating Chisel, knob handle . . . 5.50

Used for separating ice cakes in storage houses and particularly desirable in ice manufacturing plants.



Weight 16 lbs.; length 4 ft. 9 in.

Breaking blade, 8 1/4 x 4 1/2 in.; chisel blade 10 x 3 in.

No. 376—Grooving Bar \$8.75 each

Made with a broad, blunt blade and a sharp chisel blade. The broad blade is used for breaking off large sheets after being grooved. The chisel end may be used for many purposes where a sharp edge is required.

The blades of our chisels are long and thin and made entirely of tool steel carefully tempered for long service. They will wear much longer than those made of iron with just the cutting edge layed with steel.



Weight 9 lbs.; length 4 ft. 7 in.; blade 12 x 5 in.

No. 377—Caulking Bar, pipe handle \$5.00 each

Used to caulk the ends of the grooves on the field and floats in order to prevent water from freezing in the grooves. Grooves well caulked with chips enable the splitting off to be done without breaking the cakes.



Weight 15 1/2 lbs.; length 4 ft. 7 in.; blade 12 x 4 3/4 in.

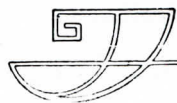
No. 379—Bar Chisel \$7.50 each

Used for packing and for cutting around the cakes when removing ice from house.

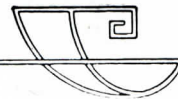


Weight 10 lbs.; length 4 ft. 10 in.; blade 12 x 5 1/2 in.

No. 380—Socket Bar Chisel, wood handle . . . \$9.00 each



Staatsburg Ice Tool Works, Staatsburg, N.Y.



SUMMER BAR, CURVED BLADE, HEAVY

Light-Weight, 16 lbs.; length 4 ft. 5 in.; blade, 10 x 4½ in.

Heavy-Weight, 17 lbs.; length 4 ft. 5 in.; blade 10 x 4¾ in.

No. 383—Summer Bar, light	. . . . .	\$10.00
384— heavy	. . . . .	10.00

Made with a curved blade and used for cutting around and lifting up the cakes in the house.



SUMMER BAR, STRAIGHT BLADE, HEAVY

Weight, 17 lbs.; length, 4 ft. 2 in.; blade 11 x 4¾ in.

No. 383½—Summer Bar, light, straight blade	. . . . .	\$10.00 each
384½— heavy,	. . . . .	10.00

The straight blade bar is used mostly for cutting around the cakes in the house.

Our Summer Chisel Bars are made with a polished steel handle, 1 in. and 1½ in. in diameter. The entire blade is made of a fine quality of tool steel, carefully tempered for long service.



STARTING CHISEL, EASTERN PATTERN

Weight, 14½ lbs.; length, 4 ft. 7 in.; blade 11 x 2½ in.

No. 387—Starting Chisel, Eastern pattern	\$7.00
--	-----------	--------

Used for starting up blocks of ice in the house; made with a gradual curve from cutting edge to head of blade.

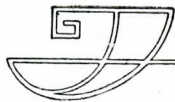


STARTING CHISEL, WESTERN PATTERN

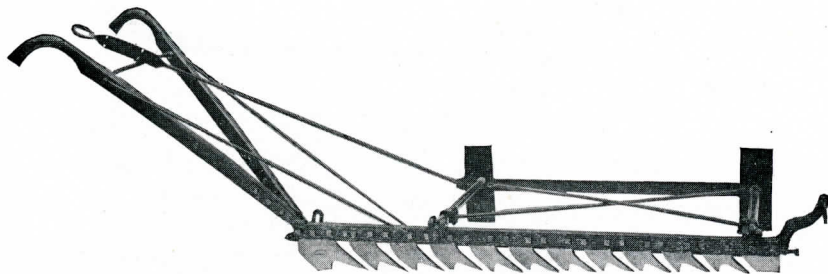
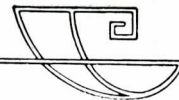
Weight, 14½ lbs.; length, 4 ft. 7 in.; blade, 11 x 2¾ in.

No. 388—Starting Chisel, Western pattern	\$7.00
--	-----------	--------

Made with a decided angle at the bend and with a wider blade than the Eastern pattern. The blades of the starting chisels are all made with a fine quality of Tool Steel, carefully tempered.



Staatsburg Ice Tool Works, Staatsburg, N.Y.



Ice Marker, 11 Cutting Teeth

Weight, with guide and case, 149 lbs.

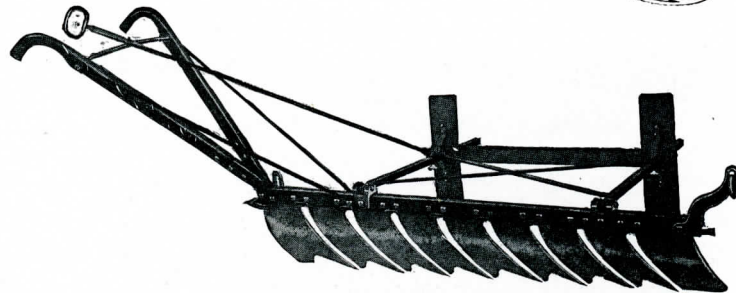
No. 390—	4 inch Ice Marker, with 22 in. swing guide	\$60.00 each
391—	with 22 in. x 32 in. extension guide	65.00

ICE MARKERS

The teeth of our Ice Markers are made of Tool Steel, carefully tempered for long service and have a perfect cutting edge, accurately gauged. We make the guide with our patent guide attachment, which requires no bolts, pins, etc., to attach guide to marker. It is the neatest, simplest and strongest swing guide made. This is one of the important features our markers possess that no others have.

Filing Directions

Filing gauges and directions for filing are furnished with every ice plow and marker. Our filing directions are very simple and easy to understand, and we are positive that no trouble will be experienced in filing plow or marker if they are carefully followed.



8-Inch Ice Plow, 8 Cutting Teeth with Adjustable Guide

Weight, with case and guide, 174 lbs.

No. 392—	8 in.	Ice Plow, 8 cutting teeth, without guide	\$53.00 ea.
393—	10 in.	6	57.00
394—	12 in.	5	61.00

If guides are wanted for above plows add to list price the following list price of guides.

EXTRA GUIDES

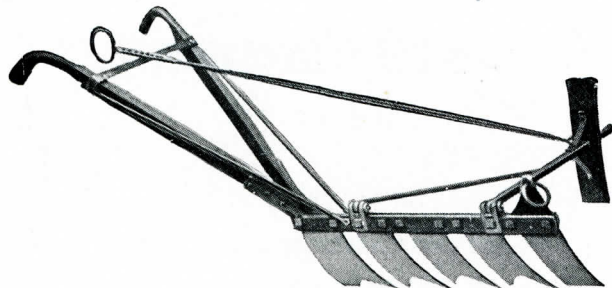
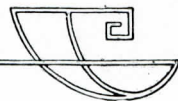
Solid swing guide 22 in. or under, add	.	.	\$12.00 each
32	.	.	13.00
44	.	.	14.00
Standard Adjustable guide, 14 to 28 in.	.	.	15.00
Patent Adjustable Guide, 18 to 32 in.	.	.	25.00

Our Ice Plows are made very rigid and the teeth are made of tool steel, hand forged, carefully tempered and gauged so that the deeper plows will follow the shallow ones. All our plows are gauged with uniformity.

The 8-inch plows are all furnished with an adjustable head piece, which can be lowered or raised to suit the length of rope desired to use. This head piece is very handy on ponds where it is necessary to cut very close to shores so as to cut all the ice possible. This is a distinct advantage over plows with a solid head. We furnish handle guards on the above plows.



Staatsburg Ice Tool Works, Staatsburg, N.Y

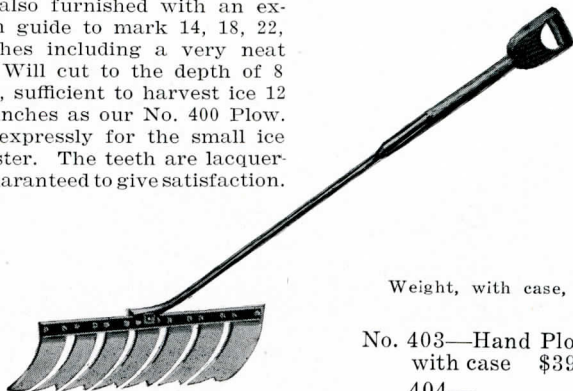


8-In. Plow, 4 Teeth

Weight, with extension guide and case, 90 lbs.

No. 399—Ice Plow, 8 in., with adj'ble guide and case \$40.00 each

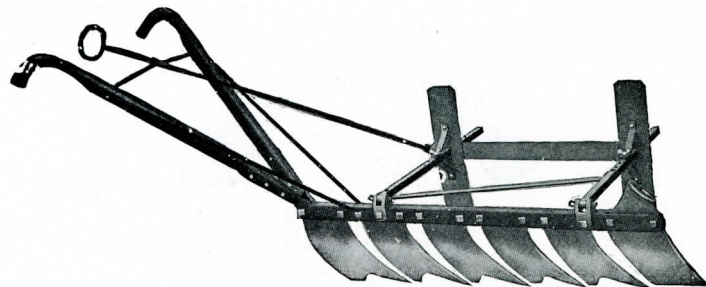
This 4-tooth Plow has a clearing tooth also furnished with an extension guide to mark 14, 18, 22, 28 inches including a very neat case. Will cut to the depth of 8 inches, sufficient to harvest ice 12 to 13 inches as our No. 400 Plow. Made expressly for the small ice harvester. The teeth are lacquered. Guaranteed to give satisfaction.



Weight, with case, 18 lbs.

No. 403—Hand Plow, 6 in.,
with case \$39.00 each

404— 7 in.
42.00



8-IN. ICE PLOW, 5 TEETH

Weight, with extension guide and case, 121 lbs.

No. 400—Ice Plow, 8 in., with adj'ble guide and case \$50.00 each

401— 10 in. 60.00

402— 12 in. 65.00

The above plows are made with 5 cutting teeth with a clearing tooth. The 8-in. plows will cut to a depth sufficient to harvest ice 12 to 13 inches thick.

The Adjustable Guide is made so it will mark the ice as follows: 14, 18, 22, 28 inches.

A high grade ice plow at a low price. A very neat painted case is furnished with every plow.

These plows have our guarantee to give perfect satisfaction. Made expressly for Farmers, Dairymen, Butchers, Cold Storage and Country Homes.

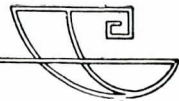
The teeth in these plows are not polished, but are lacquered.

HAND ICE PLOWS

Hand Ice Plows are used where ice is stored in large cakes so as to cut the dividing grooves preparatory to splitting into small cakes. They are also useful for making the first line on the ice field, and finishing out the ends of grooves made by horse plows. They are made of the best tool steel, nicely finished and furnished with a good case to protect the teeth.



Staatsburg Ice Tool Works, Staatsburg, N.Y



HANDLE GUARD

No. 450—Handle Guards \$.50 per pair

Handle Guards prevent wear when plow is inverted and moved about. These handle guards can be put on by anyone.



PLOW ROPE. LENGTH, 8 FEET

No. 451—Plow Rope, with thimbles and 1 matched hook \$3.75 ea.
452— 2 matched hooks 4.50

Our Plow Ropes are made of 1-in. Best Manila Rope.



FILING GAUGE

No. 456a—Filing Gauge \$.25 each

Filing Gauges and directions for filing are furnished with every plow and marker.

CASES FOR MARKERS AND PLOWS

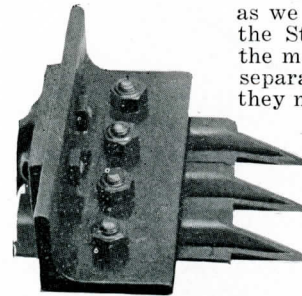
No. 458—Cases for Marker to 8-in. Plow \$6.00 each
459—Cases for Plows, 8- to 12-in., inclusive 8.00

HANDLES FOR MARKERS AND PLOWS

No. 459a—Handles for Markers and Plows complete with handle guards, per pair \$3.00

EXTRA KNIVES FOR ELEVATOR OR FIELD PLANERS

The Champion Knife, as illustrated such as we use on our Champion Field Planer and the Stationary Elevator Planer we believe is the most perfect knife made. Each point is a separate knife, and when bolted to cutter bar they make one continuous cutting edge.

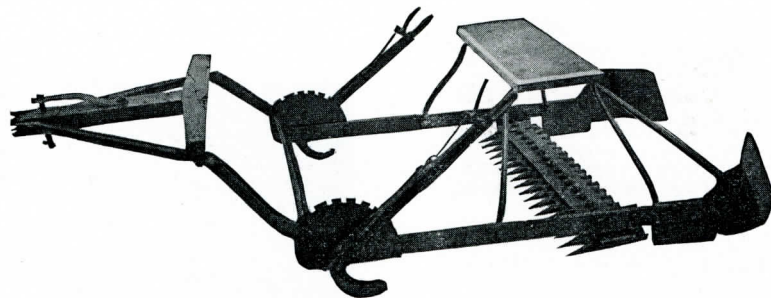


Champion Knife

The points of these teeth are made just enough rounded to make a very strong point, and make a corrugation that does not tend to split the cakes. With this knife the ridges are all planed level. These knives are made of the best tool steel and are carefully tempered for long service. The knives are very easily kept sharp by filing or grinding, as they are open or hollow on the top.



CHAMPION FIELD PLANER



No marking or grooving required.

A Planer that planes level.

Weight with pole, 225 lbs.

Capacity of cut, 3 inches deep and 40 inches wide.

No. 460—Champion Field Planer, with pole	. . . . .	\$120.00 each
461—Extra Cutter Bar	. . . . .	42.00
462—Knives	. . . . .	1.25
463—Knife Bolts	. . . . .	.20

This is a most invaluable machine for removing dirt or snow ice on the ice field. The principal advantages of this Planer over the old style planer are, it does not require grooving by the marker, it is not as hard work for the horse, and it is much easier to scrape after as the corrugations prevent the men and horses from slipping. A good team of horses can take off at a single cut, 3 inches deep and 40 inches wide. This Planer is very useful in removing frozen snow drifts, lumps, etc.

The amount of cut is regulated by the two levers, one on each side of the frame. It can be adjusted from the smallest to the largest cut simply by setting the levers from one notch to another.

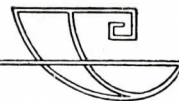
This Planer will plane the surface more level than any of the others made with long runners for depth gauge. On our Planer we have a short shoe for the depth gauge. This shoe will pass over lumps or uneven patches of ice much easier and will not cause the Planer to plane uneven, and still this shoe has sufficient surface to carry Planer in soft ice.

It is very important to have a machine to plane level and to match in nicely with each cut. With our Planer it does it perfectly, either in smooth or uneven ice. This is a feature to be well considered before purchasing a Field Planer. This Planer has our Champion knife, the same as used on our Elevator Planer, a Model knife for this purpose. We furnish a pole with Planer. This is to keep the Planer straight under the control of the driver.

We guarantee this planer to give perfect satisfaction under all circumstances, and to plane level when other machines will not.



Staatsburg Ice Tool Works, Staatsburg, N.Y.



CHAMPION SNOW SCRAPER

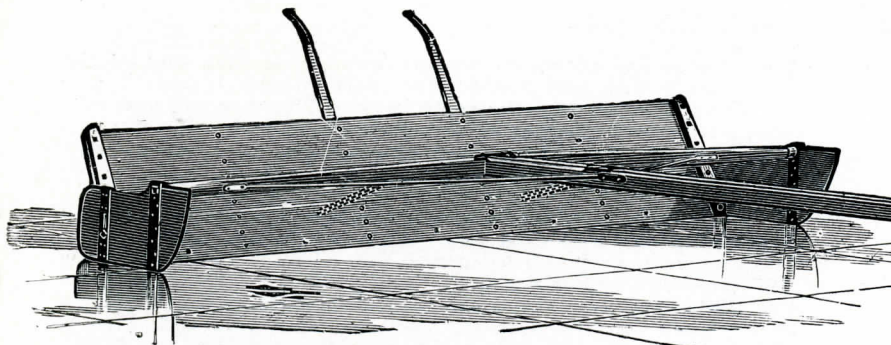
The Champion Snow Scraper is the most up-to-date snow scraper on the market and is guaranteed to scrape twice as much as any of the scoop scrapers in all around scraping.

It requires only one man to manage scraper and team. The scraper can be used with one or two horses; it takes but a moment to make the change.

This scraper weighs two hundred pounds, is ten feet long, twenty-seven inches wide, has a neck-yoke four feet long fastened to the pole.

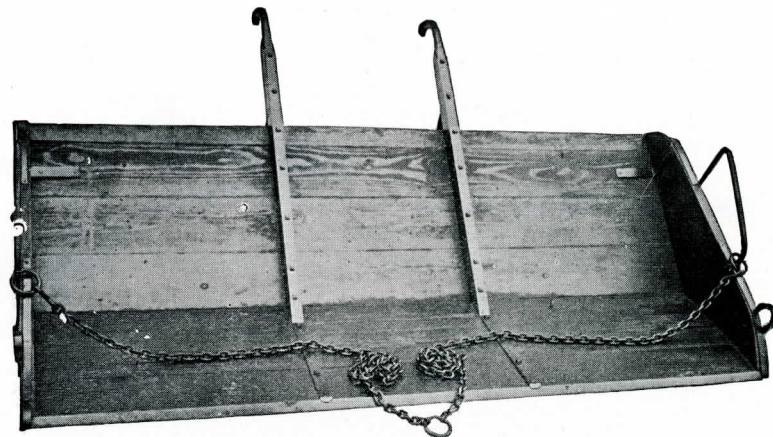
If the scraper has more snow than is desirable, all the change needed is to lower the handles, and that will allow the scraper to run over it.

The banks are made harder and smoother than those made by any other scraper.



Weight of Team Scraper, 200 lbs.

No. 469 — Champion Snow Scraper, single horse, 8 ft. \$70.00 each
469a — team 10 ft. 70.00



BOSTON SNOW SCRAPER

Weight—8 ft. Scraper, without chains, 175 lbs.
6 ft. 150 lbs.

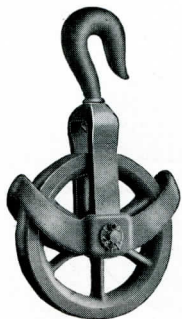
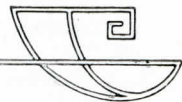
No. 465—Boston Snow Scraper, without chains, 6 ft. long

466—	without chains, 8 ft. long	\$47.00 each
467—	Chains for 6 ft. Scraper	7.00
468—	8 ft.	8.00

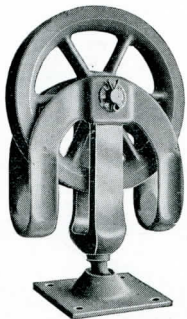
Our Boston Scrapers are far superior to any of their kind made. We put a tapered runner on the bottom to slide on, making a much lighter draft, and we also put on a scraping plate so as to take a good hold on the ice without lifting on the handles to make the scraper scrape clean. We make it in a very substantial manner throughout. This style of snow scraper is very popular.



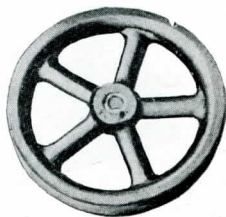
Staatsburg Ice Tool Works, Staatsburg, N.Y.



Upper Gin Block
Weight of 12 in. size.
34 lbs.



Lower Gin Block
Weight of 12 in. size.
39 lbs.



Self-Lubricating Sheave Wheel
Weight of 12 in., 18 lbs.

UPPER GIN BLOCK

No. 470—Upper Hoisting Gin Blocks,	8-in., self lubricating	\$7.50 each
471—	10-in.	10.00
472—	12-in.	13.00

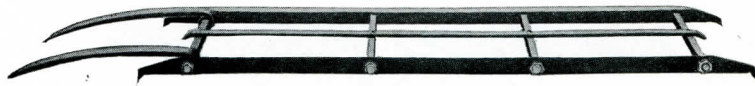
LOWER GIN BLOCK

No. 473—Lower Hoisting Gin Blocks,	8-in. self lubricating	\$8.50 each
474—	10-in.	11.00
475—	12-in.	14.00

The Self-Lubricating Gins are made with wrought iron guard straps. They can be run at high speed without the use of oil, being self-lubricating, and are always ready for use. The lower Gins have the ball and socket joint.

EXTRA SHEAVE WHEELS

No. 476—Sheave Wheels,	8-in., $\frac{3}{4}$ in. hole for $\frac{3}{4}$ in. to $1\frac{1}{4}$ in. rope	\$2.75 each
476a—	10-in., $\frac{3}{4}$ in. hole for 1 in. to $1\frac{1}{4}$ in. rope	3.50
477—	12-in., $\frac{7}{8}$ in. hole for 1 in. to $1\frac{1}{2}$ in. rope	4.75

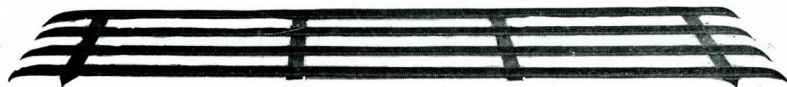


WAGON RUN—Weight 75 lbs.

No. 485—Wagon Runs, 6 ft., 12 in. wide	.	\$32.00 each
486—	16 in.	33.00

CAR RUN—Weight 100 lbs.

No. 487—Car Run, 7 ft., 12 in. wide	.	\$43.00 each
488—	16 in.	44.00



T STEEL RUN—12 ft., 4 slat; Weight 115 lbs.

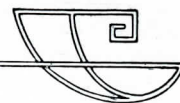
T STEEL RUNS

No. 496—4 slats, 8 ft.	.	.	.	\$12.25 each
497—	10 ft.	.	.	13.00
498—	12 ft.	.	.	14.50
499—	14 ft.	.	.	15.25
500—	16 ft.	.	.	16.75

These runs are made entirely of T steel. They are very popular for use in houses.



Staatsburg Ice Tool Works, Staatsburg, N.Y.

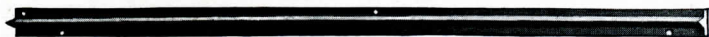


RUN HOOKS AND EYES

Weight 4 ½ lbs. per pair

No. 501—Run Hook and Eye, per pair . . . \$1.00

These are used for connecting runs together which have sides. We make them of steel. These hooks and eyes are made in two sizes, 2 ¾ in., and 7 in., center to center of bolt holes.

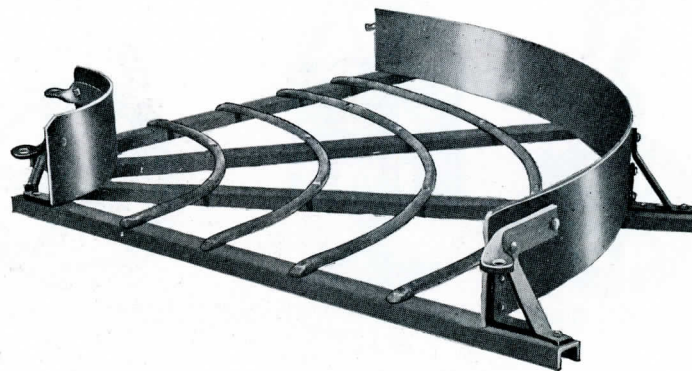


SLIDE STEEL—10 ft. length; Weight 12 lbs.

No. 502—Slide Steel, 10 ft., drilled	. . .	\$1.00 each
503—12 ft.	. . .	1.20
504—14 ft.	. . .	1.40
505—16 ft.	. . .	1.60

If ends are dressed, add 8 cents per length.

The V shaped Ice Slide Steel is used where runs are not made with sides. The sharp edge grooves the ice as it passes over it, and prevents it from running off. We have this steel in 10-, 12-, 14- and 16-ft. lengths, drilled and countersunk, in stock.



Weight 160 lbs.; Steel Circle Run 28 in.

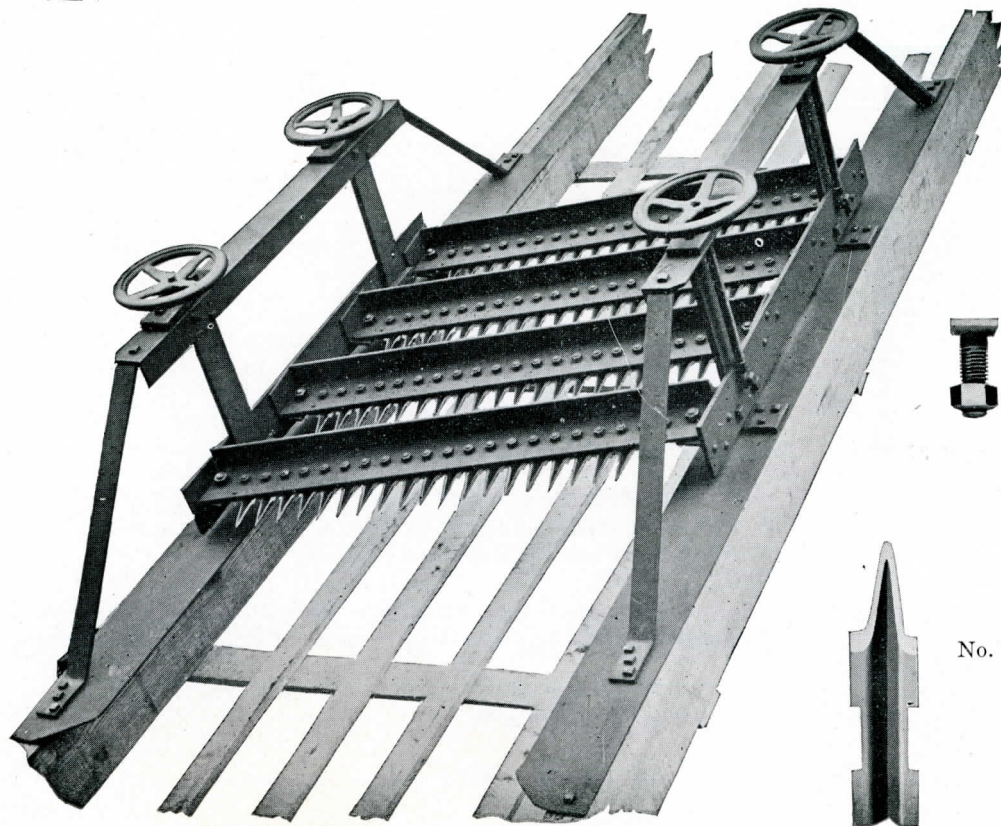
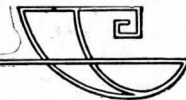
CIRCLE RUNS

No. 510—Circle Runs, steel 28 in.	. . .	\$47.00 each
511—30 in.	. . .	48.00
512—40 in.	. . .	52.00
513—clevises, per pair	. . .	2.75

We make these Circle Runs entirely of steel. The outside circle is well braced. Sizes listed carried in stock. Other sizes made to order.

In ordering Circle Runs give inside measurement of runs, and unless otherwise specified, eyes will be fitted on top, to suit 3 x 5 inch side pieces.

The Circle Run is used when it is necessary to change the direction in which the ice is being moved to a right angle.



Weight of 4-Bar Planer for 50 in. Run., inside, 1,000 lbs.



STATIONARY PLANERS

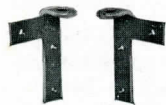
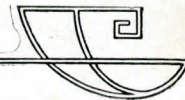
The harvester must obey the demand of the public for clean ice by removing all foreign substances from the surface of the ice as it passes into the house. This adjustable Elevator Planer is used upon inclines of any desired width and is provided with any number of cutting bars. The illustration shows four cutting bars but we have many orders for six, eight and ten bars and yet often we make them with but two bars. They are built very substantially to resist the pressure necessary to cut from two to ten inches of ice from the cakes without vibration. The cutting bars and knives are set diagonally with the incline thereby insuring minimum resistance. The deep, clean corrugations made by our well tempered tool steel and durable knives are indispensable to the harvester in getting his ice out of the house without breakage of the cakes.

STATIONARY PLANERS

No. 530—Elevator Planers, 2 cutter bars	\$230.00 each
531—	3 275.00
532—	4 325.00
534—	6 415.00
537—Extra Cutter Bars, complete with knives	42.00
538—Planer Knives	1.25
539—Planer Knife Bolts	.20



Staatsburg Ice Tool Works, Staatsburg, N.Y.



Outlet Run Eyes

RUN SWITCHES

Handles, when desired, are furnished with each switch.

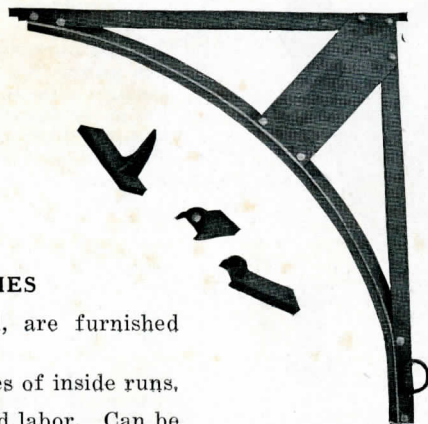
Used on outside galleries of inside runs.

A great saver of ice and labor. Can be used either right or left hand.

Switches are made to order.

The complete switch as listed consists of the parts as illustrated above, except outlet run eyes. These are extra.

No. 540—Run Switches, for runs 36 in., or under	\$29.50 each
541—44 in.	30.50
542—52 in.	31.00
543—60 in.	31.50
544—Extra Bumpers	3.00
545—Extra Hinge Eyes	\$3.00 per pair
546—Extra Eyes for Outlet Runs	4.00 per pair



REPAIRING ICE TOOLS

Always send your winter tools for repairs as early as possible to avoid delays. We repair all makes of Ice Tools at the very lowest prices.

An estimate will be given (if desired) on all tools received for repairs.

Markers and Plows should be reformed occasionally to keep them in proper cutting width.


Reforging includes cutting out, retempering, resizing and general overhauling of the teeth.

Broken Marker or Plow teeth can be replaced very promptly. If possible mail us the broken tooth or a sketch of it showing the bolt holes and cutting width of tooth.

Tools that are burned that have the appearance of being destroyed can be overhauled by us so as to give good satisfaction.

Tools such as Chisels and bars can be made equal to new by putting in new blades.

Ask for our shipping tags.



Remember---

Being specialists in the manufacture of Ice Tools to the exclusion of all unrelated commodities, we can and do concentrate our entire attention on the many details necessary to the production of High Grade Ice Tools.